LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A flip chip semiconductor device comprising a silicon wafer having parallel first and second major surfaces; at least one P region and at least one N region in said wafer which meet at a PN junction within said silicon wafer; first and second coplanar, laterally spaced and metallized layers formed on said first major surface and insulated from one another and each connected to one of said P region and said N region respectively; a bottom metallized layer extending across said second major surface; and

a third metallized layer atop said first major surface which is coplanar with and laterally spaced from said first and second metallized layers; said first, second and third metallized layers comprising source, drain and gate electrodes respectively of a MOSgated device, wherein a current path <u>inside said silicon wafer</u> from said source electrode to said drain electrode includes a vertical component which is generally perpendicular to said first major surface.

2. (Canceled)

- 3. (Original) The device of claim 1 which further includes at least one contact bump connected to each of said metallized layers.
- 4. (Previously Presented) The device of claim 1 which further includes at least one contact bump connected to each of said metallized layers.

5. - 7. (Canceled)

8. (Original) The device of claim 4 wherein said bottom metallized layer is substantially thicker than all of said first and second metallized layers.

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- 9. (Previously Presented) The device of claim 1 wherein a plurality of contact bumps are connected to each of said first and second metallized layers; said plurality of contact bumps connected to said first metallized layer being aligned along a first straight row; said plurality of contact bumps connected to said second metallized layer being aligned along a second straight row.
- 10. (Original) The device of claim 9 wherein said first and second rows are parallel to one another.

11. (Canceled)

wafer having first and second parallel major surfaces; at least one P region and at least one N region in said wafer which meet at a PN junction within said silicon wafer; first and second coplanar, laterally spaced metallized layers formed on said first major surface and insulated from one another and each connected to one of said P region and said N region respectively; a third metallized layer atop said first major surface which is coplanar with and laterally spaced from said first and second metallized layers; said first, second and third metallized layers comprising source, drain and gate electrodes respectively of a MOSgated device; and a plurality of contact bumps connected to each of said first and second metallized layers; said plurality of contact bumps connected to said first metallized layer being aligned along a first straight row; said plurality of contact bumps connected to said second metallized layer being aligned along a second straight row, wherein a current path inside said silicon wafer from said source electrode to said drain electrode includes a vertical component which is generally perpendicular to said first major surface.

13. (Canceled)

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- 14. (Previously Presented) The device of claim 12, further comprising a bottom metallized layer extending across said second major surface.
- 15. (Previously Presented) The device of claim 14, wherein said bottom metallized layer is substantially thicker than all of said first and second metallized layers.
- 16. (Previously Presented) The device of claim 12, wherein said first and second rows are parallel to one another.
- 17. (Previously Presented) The device of claim 12, wherein said silicon wafer is a rectangular wafer having an area defined by a given length and a given width, said length being greater than said width; said first and second rows of bumps being parallel to one another and being symmetric about a diagonal line across said wafer.

18. (Canceled)

19. (Previously Presented) The device of claim 14, wherein said silicon wafer is a rectangular wafer having an area defined by a given length and a given width, said length being greater than said width; said first and second rows of bumps being parallel to one another and being symmetric about a diagonal line across said wafer.

20.-26. (Canceled)

27. (Currently Amended) A semiconductor device comprising a silicon die having first and second parallel surfaces; a region of one conductivity type extending from said first surface and into the body of said die; a junction pattern defined in said device formed by a plurality of laterally spaced diffusions of the other conductivity type into said region of one conductivity type; a first conductive power electrode formed atop said first surface and in contact with said plurality of laterally spaced diffusions; a second conductive power electrode formed

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atop said first surface which is coplanar with and laterally spaced from and insulated from said first conductive electrode and in electrical contact with the body of said die through a high conductivity element located outside said region of one conductivity type; and at least one solder ball connector formed atop each of said first and second conductive electrodes respectively; the current path <u>inside said silicon die</u> from said first conductive electrode to said second conductive electrode having a vertical component which is generally perpendicular to said first surface.

- 28. (Original) A semiconductor device according to claim 27, wherein said high conductivity element is a sinker diffusion of higher conductivity than said body region.
- 29. (Original) A semiconductor device according to claim 27, wherein said high conductivity element is a metallic material residing in a trench formed in said body of said die.

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